

WHAT IS CLAIMED IS:

- 1 1. A reproducing apparatus comprising:
 - 2 a reading section which reads data recorded on
 - 3 a recording medium;
 - 4 a storing section which stores the data read
 - 5 by said reading section;
 - 6 a reproducing section which reads out and
 - 7 reproduces the data stored in said storing section;
 - 8 a discal unit which is rotated by a driving
 - 9 section at a reference rotational speed and in a
 - 10 reference rotational direction;
 - 11 an operation discal unit which is mounted on
 - 12 said discal unit to be rotatable with said discal
 - 13 unit, and is configured in such a manner as being
 - 14 rotatable in a rotational direction and at a
 - 15 rotational speed as desired by a user, so that said
 - 16 reproducing section performs a desired data
 - 17 reproduction;
 - 18 a sensor section which outputs a pulse signal
 - 19 in accordance with the rotational direction and the
 - 20 rotational speed of said operation discal unit; and
 - 21 a control section which determines the
 - 22 rotational direction and rotational speed of said
 - 23 operation discal unit according to the pulse signal
 - 24 from said sensor section, and when determines that

25 said operation discal unit starts rotating in said
26 reference direction after pausing for at least a
27 predetermined period of time, said control section
28 controls said driving section to rotate said discal
29 unit at a speed higher than said reference
30 rotational speed for a predetermined period of time.

1 2. The reproducing apparatus according to claim 1,
2 wherein,

3 said control section gives a control to apply
4 to said driving section a pulse voltage of a
5 predetermined voltage value, so that said discal
6 unit is rotated at a higher speed.

1 3. An operating apparatus for reproduction
2 comprising:

3 a discal unit which is rotated by a driving
4 section at a reference rotational speed and in a
5 reference rotational direction;

6 an operation discal unit which is mounted on
7 said discal unit to be rotatable with said discal
8 unit, and is configured in such a manner as being
9 rotatable in a rotational direction and at a
10 rotational speed as desired by a user, so that a data
11 reproducing apparatus connected externally
12 performs a desired data reproduction;

13 a sensor section which outputs a pulse signal
14 in accordance with the rotational direction and the
15 rotational speed of said operation discal unit; and
16 a control section which determines the
17 rotational direction and the rotational speed of
18 said operation discal unit based on the pulse signal
19 from said sensor section, and when determines that
20 said operation discal unit starts rotating in said
21 reference rotational direction after pausing for at
22 least a predefined period of time, said control
23 section controls said driving section to rotate said
24 discal unit at a speed higher than said reference
25 rotational speed for a predetermined period of time.

1 4. The operating apparatus for reproduction according
2 to claim 3, wherein,

3 said control section gives a control to apply to
4 said driving section a pulse voltage of a predetermined
5 voltage value, so that said discal unit is rotated at
6 a higher speed.

1 5. A reproducing method in a reproducing apparatus
2 having a reading section which reads data recorded
3 on a recording medium, a storing section which
4 stores the data read by said reading section, a

5 reproducing section which reads out and reproduces
6 the data stored in said storing section, and a discal
7 unit which is rotated by a driving section at a
8 reference rotational speed and in a reference
9 rotational direction, comprising:
10 receiving an instruction from a user regarding
11 a reproducing sequence direction and a reproducing
12 speed of the data, via an operation discal unit,
13 which is mounted on said discal unit to be rotatable
14 with said discal unit, and is configured in such a
15 manner as being rotatable in a rotational direction
16 at a rotational speed as desired by the user;
17 receiving a pulse signal outputted according
18 to the rotational direction and the rotational speed
19 of said operation discal unit which rotates
20 according to the received instruction;
21 determining the rotational direction and
22 rotational speed of said operation discal unit
23 according to said received pulse signal; and
24 controlling a reproduction in said reproducing
25 section in accordance with said rotational
26 direction and rotational speed thus determined, and
27 when determines that said operation discal unit
28 starts rotating in said reference direction after
29 pausing for at least a predefined period of time,
30 controlling said driving section to rotate said

31 discal unit at a speed higher than said reference
32 rotational speed for a predetermined period of time.

1 6. The reproducing method according to claim 5,
2 wherein,

3 when determined that said operation discal
4 unit starts rotating in said reference rotational
5 direction after pausing for at least a predetermined
6 period of time, said controlling includes applying
7 to said driving section a pulse voltage of a
8 predetermined voltage value, so that said discal
9 unit is rotated at a high speed.